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EUROPEAN PATENT APPLICATION

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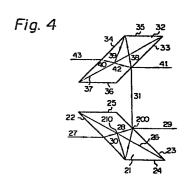
51 int. Ci.4: G 01 N 21/59

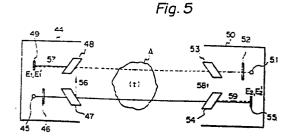
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- (54) Apparatus for measuring optical transmission factor.
- (57) The optical transmission factor of an object (A) is measured by mutual measuring technology using a pair of identical units (44,50) located on opposite sides of the object. Each of the units (44,50) comprises a pair of beam splitters (47,48;53,54), a light source (45,46;51,52) for illuminating the object through a first beam splitter (47) and providing an offset beam (56) from the first beam splitter (47), and a photodetector (49,55) for converting optical power from the other unit (50) and the offset beam (56). Each of the beam splitters (47,48;53,54) is substantially in parallelogram shape with two pairs of confronting planes (24,25; and 22,23), a first pair of the planes (24,25) being not perpendicular to the second pair of planes (22,23). One of the first pair of planes (24) is mirror coated for reflecting the beam internally, such that split beams (29,31) obtained from a single beam (27) share a common point (200) on the plane (23). Thus, dust and dirt free measurement using no mechanically moving means is accomplished.









EUROPEAN SEARCH REPORT

Application number

EP 84 30 4868

Category	DE-A-2 460 434 (BABCOCK & WILCOX CO.) * Page 1, lines 5-7; page 2, line 23 - page 3, line 27; page 10, lines 6-9,15,16; figure 1 *		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y			1-4	G 01 N 21/5
Y	US-A-3 677 621 * Figure 1; 29-36; column 2	(F.H. SMITH) column 1, lines t, lines 25,28-54 *	1-4	
A	<pre>* Abstract:</pre>	(L. LOITERMAN) column 11, lines 3, column 6, lines	1	
A	DE-B-1 914 655 (E. SICK) * Claims 1-4; column 2, line 66 - column 3, line 4 *		1	TECHNICAL FIELDS SEARCHED (int. Ci.4)
A	US-A-3 390 605 * Abstract; col	 (T. NAGAMURA) umn 2, lines 40-47	1	G 01 J 1/00 G 01 N 21/00 G 02 B 27/00
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	The present search report has t	oeen drawn up for all claims		÷
Place of search Date of completion ptipe search		Date of completion of the search	BRISON	O.F.
doci A: tech	CATEGORY OF CITED DOCL icularly relevant if taken alone icularly relevant if combined wument of the same category inological background written disclosure rmediate document	E : earlier pate after the fili ith another D : document of L : document of the comment of the c	ing date cited in the appli cited for other re	ing the invention ut published on, or ication easons t family, corresponding